



# DHWHP

HO Scale

Wiring Harness (3.0") for use with DCC decoders equipped with Digitrax 9 pin socket

Digitrax Easy Connect System  
Digitrax 9-Pin to DCC Medium Plug

## Features

- Easy to connect decoder with DCC Plug & Digitrax wire harness
- Allows you to share decoders among several locomotives
- Interoperable with other DCC systems
- 4 function outputs rated at 500mA
- Dummy plugs (DHDP) sold separately in 5 packs

## Parts List

- |                 |                      |
|-----------------|----------------------|
| 1 DHWHP Harness | 1 Instruction Manual |
|-----------------|----------------------|

## Installation Instructions

The DHWHP harness is part of the Digitrax Easy Connect system--a DCC medium plug on one end for connection to the locomotive's DCC socket and a Digitrax 9-pin plug on the other end for connecting to the decoder's 9-pin socket. The Digitrax 9-pin connector is used by many other DCC companies, too!

It's easy to unplug the decoder from the locomotive. This is useful if you have many locos to equip and a limited budget. It also makes it easy to unplug a decoder and try a different one if you suspect a problem with a decoder.

1. Simply remove the "Dummy Plug" from the DCC socket on the factory circuit board in the locomotive and plug in the DCC medium plug end of the harness.
2. Plug the 9-pin plug into the 9-pin socket of the decoder. The plug is notched to fit easily into the socket in only one orientation.
3. To run your DCC ready locos on DC with the decoder removed, just remove the decoder and DHWHP harness and reinstall the dummy plug that came with the loco.
4. The DCC medium plug supports F0F (White) and F0R (Yellow). The harness has two additional function leads (F1/Green and F2/Violet) for decoders that have the additional function capabilities. See **Figure 1** on the back of the instruction card for additional wiring information.

**Digitrax manuals and instructions are updated periodically. Please visit [www.digitrax.com](http://www.digitrax.com) for the latest version.**



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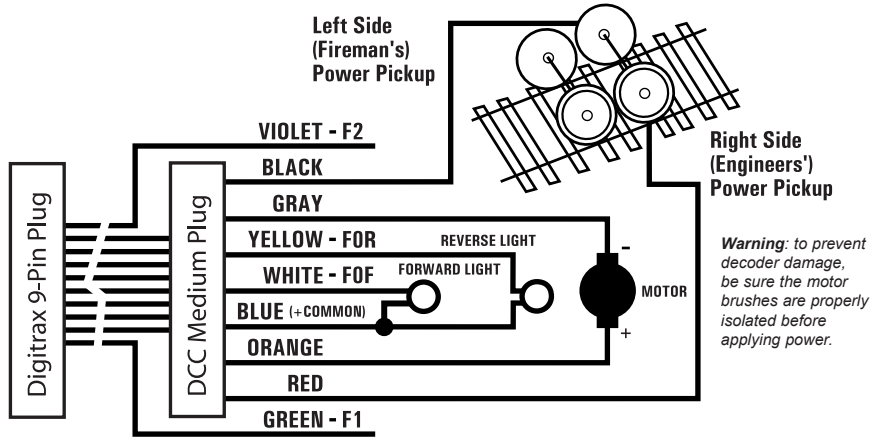
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Figure 1. DHWHP Wiring Diagram showing pin outs for DCC plug.



### Installation Notes:

1. Do not exceed the decoder's total function output rating.
2. We recommend that the Blue wire, also called +Common or Lamp Common, be connected as shown (automatically done with DCC medium plug). If you wish to omit the Blue wire in your installation, consult the Digitrax Decoder Manual for more information.
3. The head lamp should be hooked up using the Blue/+Common wire for optimal Digitrax transponding operation (automatically done with DCC medium plug configuration).
4. To use a function output with an inductive (coil) type load, see the Digitrax Decoder Manual for more information to avoid damage to the decoder.
5. See the Digitrax Decoder Manual for full details of wiring 12-16V lamps, 1.5V lamps, and LEDs. Lamps that draw more than 80 mA when running require a 22 ohm 1/4 watt resistor in series with the directional light function lead to protect the decoder.
6. Some locomotives employ filter capacitors for RFI suppression in the locomotive wiring. These may cause problems with Supersonic decoders and non-decoder analog operation on DCC. This capacitor should be removed for safe operation.

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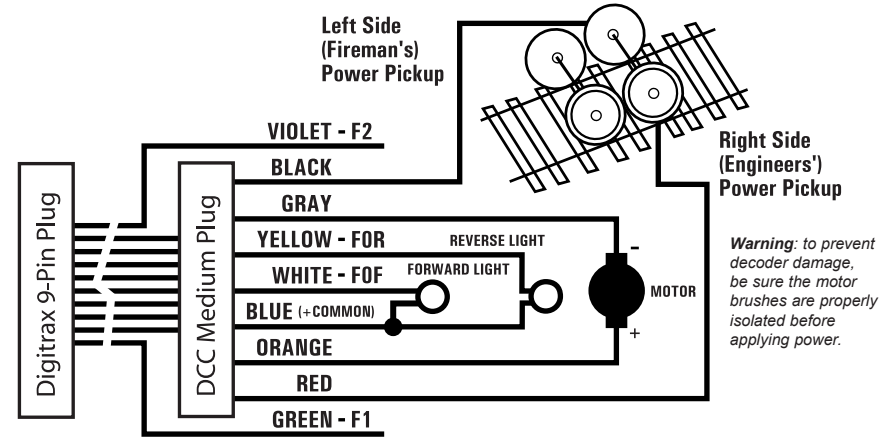
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